

ABSTRACT

A contrast improving sheet to be disposed on the viewing side of a display, such as a rear-projection display or a liquid crystal-display, to display images in high contrast and in excellent directivity, and a rear projection-screen provided with the contrast improving sheet are provided.—A contrast improving sheet 11-includes a first optical functional element 1-and a second optical functional element 2 disposed on the viewing side thereof the first optical functional element 1. The first optical functional element 1 is provided with has a plurality of protrusions, 3-arranged in a direction or distributed in a plane. Each of the protrusions 3 has each having a pair of opposite total-reflection facets 5-for totally reflecting image light rays substantially perpendicularly incident on the entrance surface and a flat facet 6-extending between the front edges, on the side of the exit surface, of the pair of opposite total-reflection Light absorbing layers 7-are formed in V-grooves between the adjacent protrusions-3. The second optical functional element 2 is provided with has a light path correcting layer 9-for correcting light paths followed by the image light rays totally reflected by the total-reflection facets 5 of the protrusions 3-such that the image light rays are emitted through the exit surface substantially perpendicularly to the exit surface. The light path correcting layer 9-has a plurality of alternately inclined planes 8-inclined in opposite directions, respectively, and the inclined planes 8 inclined in opposite directions are arranged-alternately.

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